



Quality Assurance Unit



**Tanta University
Faculty of Medicine**

Department of Forensic Medicine and Clinical Toxicology

Course Specifications

**Clinical Toxicology for Forensic
Medicine and Clinical
Toxicology Doctorate degree
FMCT 9007**

2014-2015

Clinical Toxicology Forensic Medicine and Clinical Toxicology Doctorate Degree Course
Specifications

University: Tanta Faculty: Medicine Department: Forensic Medicine and Clinical Toxicology

1) administrative Information

1- course title: Clinical Toxicology for Forensic Medicine and Clinical Toxicology Doctorate Degree

2- Department offering the program: Forensic Medicine and Clinical Toxicology Department

3- Department responsible for the course: Forensic Medicine and Clinical Toxicology Department

4- Course code: FMCT 9007

5- Level: Second part

6- No. of Credit / taught hours:

Lectures: 28 credit hrs Practical/clinical: 28 credit

Total: credit hours taught hours

7-Authorization date of course specification:

2) Professional Information

1 – Overall Course aims

To offer advanced knowledge and skills in the discipline of clinical toxicology, which allow the student to gain positive attitude towards development of discipline through adding new to scientific research, teaching junior students, and introduce a high quality professional medical services to the community, reflecting the mission of our faculty and spirit of our department

2 – Intended learning outcomes (ILOs):

a-knowledge and understanding:

By the end of the course the candidate will be able to:

- a.1- discuss the theories and principles, and updates about (toxins and management of poisoning including addiction and different methods of toxins detection).
- a.2- recognize the ethical and legal principles of medical and professional practice
- a.3- identify the principles of quality assurance in medical practice
- a.4- discuss the effect of medical practice on surrounding environment, and how to develop and protect environment (current toxicities in Egypt and worldwide, syringe disposal, tissue and blood specimen transport ...etc)

b. Intellectual skills:

By the end of the course the candidate will be able to:

- b.1- analyze medical information related acute and chronic poisoning including addiction.
- b.2- interpret medical problem related to clinical toxicology (Response urgently for first aid and management of critical toxicities, Decide correctly patient disposition, Recognize the suspected poisons for starting the toxicology screening).
- b.3- demonstrate risks in medical practice (nosocomial infections, care for infectious cases...etc).
- b.4- Plan to develop progress in his career practice
- b.5- organize professional medical dissensions according to different situations when facing medical problem (during clinical training course).
- b.6- prepare solutions to medical problems in his specialty (suggest innovative scenarios for controlling particular toxicities , reduce epidemic poisonings...etc).
- b.7- organize medical issues on evidence based manner.

c. Professional and practical skills:

By the end of the course the candidate will be able to:

- c1- revise first aid and CPR for poisoned patient cleverly.
- c2- select different methods of drug screening starting from color tests up to using the most recent technologies for drug detection.
- c3-assess Diagnosis and treat acute and chronic toxicities including drugs abuse (addiction).
- c.4- Select medical, analytical methods and tools used in his specialty and share in its development and progress.

d. General and transferable skills:

By the end of the course the candidate will be able to:

- d.1-Communicate effectively with the patients and their relatives, transferring them information about illness in clear and suitable words.
- d.2- use specified topics on the library books, medical journals, and internet(eg assignments, journal club).
- d.3- Apply self evaluation and specify his medical educational needs (eg through tutorials).
- d.4- Mange time and practice team working.
- d.5- apply team working ,and lead a team in medical care application to the patients.
- d.6- perform continuous medical education.
- d.7- Apply respect to all colleagues in his medical team.
- d.8- Apply ethical principles on treating the patients.

3) -Course contents

i- drugs of abuse	Total lectures' credit hours	Total Practical/clinical 's credit hours
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Course Specifications: clinical Toxicology Doctorate degree, 2014-2015

1- Gamma hydroxybutyrate and its congeners 2- Indole hallucinogens 3- Amphetamines and derivatives 4- Phencyclidine and its congeners 5- Cocaine	14	14
ii- Chemical agents	Total lectures' credit hours	Total Practical/clinical 's credit hours
Metals and related substances 6- Arsenic 7- Cadmium 8- Lead 9- Mercury 10- Antimony 11- Phosphorus 12- Thallium Solvents, glycols, and alcohol 13- Ethylene glycol and other glycols 14- Hydrocarbon and halogenated hydrocarbon 15- Isopropyl alcohol 16- Methanol and formaldehyde Pesticides 17- Chlorophenoxyherbicides 18- Fumigants 19- Fungicides 20- Organochlorine, pyrethrin and pyrethroid insecticides 21- Organophosphorus and carbamate 22- Paraquat and diquat 23- Rodenticides Gases and vapors 24- Carbon monoxides 25- Cyanide: hydrogen cyanide, inorganic cyanide salts, and nitrites 26- Isocyanates and its important chemical pulmonary sensitizers 27- Irritant and toxic respiratory injuries 28- Hydrogen sulfide Acids and bases 29- Caustics 30- Hydrofluoric acid	14	14

4) Teaching and learning methods

3.1 Lectures.

3.2 seminars.

3.3 Clinical training in poison control center and casualty units in Emergency Hospital.

3.4 laboratory training in the clinical toxicology laboratories .

3.5 Problem based learning.

5) Candidate Assessment:

At the end of each semester:

1. Log book: at least 75% of attendance.
2. End of semester exam: at least C is required.

At the end of the first part:

1. Written exam to assess (a1- a4 , b1-b7)
2. Practical & clinical exam to assess(c1-c4)
3. Oral exams to assess (b1-b7)
4. Log book activity assignment to assess (d1-d8)

6) Weighing of assessments

Written examination	
Clinical examination:	
Oral examination:	
Semester work	Formative only
Periodical examination	Formative only
Total	

7) List of references

8.1 Course notes

Hand outs of J.clubs and seminars

8.2 Text book

- Emergency toxicology. -
- The forensic pharmacology of drug of abuse.
- Critical care toxicology.
- Poisoning and drug overdose.
- Goldfrank's manual of toxicologic emergency.

Periodicals and web sites

- Journal of applied toxicology.
- Journal of toxicology and environmental health.
- Journal of occupational medicine and toxicology.
- Journal of toxicology – an open access

8) Other resources/ facilities required for teaching and learning to achieve the above ILOs

- 1- Laboratory equipments for toxins screenings.
- 2- Extension of poison control center in emergency hospital to ensure good clinical training for clinical toxicology.
- 3- Chemicals for laboratory tests.
- 4- Availability of models for training on life support measures in poisoning.

10)we certify that all of the information required to deliver this course is contained in the above specifications and will be implemented

We verify that the above program and the analysis of students and external evaluator opinions are accurate.

Program coordinator and head of department

name.....signature.....Date.....

Head of quality assurance unit:

name.....signature.....Date.....